

METHOD AND SYSTEM FOR POWER-CONSERVING
INTERFERENCE AVOIDANCE IN COMMUNICATION
BETWEEN A MOBILE UNIT AND A BASE UNIT
IN A WIRELESS TELECOMMUNICATION SYSTEM

ABSTRACT OF THE DISCLOSURE

5 A method for avoiding interference in a wireless
telecommunication system is provided. The method
includes providing communication between a first and
second component at an initial frequency. A plurality of
successive line quality indicators is determined at a
line quality monitor of the first component. Consecutive
line quality indicators are summed over a predetermined
time to determine a slow hop count. A determination is
made as to whether the slow hop count is greater than a
slow hop threshold. A determination is made as to
whether to provide communication with the first component
at a second frequency when the slow hop count is greater
than the slow hop threshold. This determination is based
15 on a power level of the second component and a
communication strength received from the second component
at the first component. A signal is communicated from
the first component to the second component requesting
the second component to provide communication at the
20 second frequency.